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cca acc gtc acc ctg ggt ccc gac tgc cca cct cct cct cct ccc cct Pro Thr Val Thr Leu Gly Pro Asp Cys Pro Pro Pro Pro Pro Pro 40 45 50			379
ccc ccc aac aac aac aac aac aac aac tcc aag cac acc ggc cat aag Pro Pro Asn Asn Asn Asn Asn Asn Asn Ser Lys His Thr Gly His Lys 55 60 65 70			427
agt gcg tgt gtc ccc aac atg acc gaa cga aga agg gac gag ctc tct Ser Ala Cys Val Pro Asn Met Thr Glu Arg Arg Arg Asp Glu Leu Ser 75 80 85			475
gaa gag atc aac aac tta aga gag aag gtc atg aag cag tcg gag gag Glu Glu Ile Asn Asn Leu Arg Glu Lys Val Met Lys Gln Ser Glu Glu 90 95 100			523
aac aac aac ctg cag agc cag gtg cag aag ctc aca gag gag aac acc Asn Asn Asn Leu Gln Ser Gln Val Gln Lys Leu Thr Glu Glu Asn Thr 105 110 115			571
acc ctt cga gag caa gtg gaa ccc acc cct gag gat gag gat gat gac Thr Leu Arg Glu Gln Val Glu Pro Thr Pro Glu Asp Glu Asp Asp Asp 120 125 130			619
atc gag ctc cgc ggt gct gca gca gct gct gcc cca ccc cct cca ata Ile Glu Leu Arg Gly Ala Ala Ala Ala Ala Pro Pro Pro Pro Ile 135 140 145 150			667
gag gaa gag tgc cca gaa gac ctc cca gag aag ttc gat ggc aac cca Glu Glu Glu Cys Pro Glu Asp Leu Pro Glu Lys Phe Asp Gly Asn Pro 155 160 165			715
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agc acc agg gat ttc tca gtt gat cgt gtc cgt gtc tgc ttc gtg aca Ser Thr Arg Asp Phe Ser Val Asp Arg Val Arg Val Cys Phe Val Thr 185 190 195			811
agc atg atg acc ggc cgt gct gcc cgt tgg gcc tca gca aag ctg gag Ser Met Met Thr Gly Arg Ala Ala Arg Trp Ala Ser Ala Lys Leu Glu 200 205 210			859
cgc tcc cac tac ctg atg cac aac tac cca gct ttc atg atg gaa atg Arg Ser His Tyr Leu Met His Asn Tyr Pro Ala Phe Met Met Glu Met 215 220 225 230			907
aag cat gtc ttt gaa gac cct cag agg cga gag gtt gcc aaa cgc aag Lys His Val Phe Glu Asp Pro Gln Arg Arg Glu Val Ala Lys Arg Lys 235 240 245			955
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gct Ala	ttc Phe	cag Gln 265	atg Met	att Ile	gcc Ala	cag Gln 270	gac Asp	ctg Leu	gat Asp	tgg Trp	aac Asn	gag Glu 275	cct Pro	gcg Ala	ctg Leu	1051
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cgc Arg	tcg Ser	cca Pro 330	ccc Pro	cgg Arg	gcg Ala	ctg Leu	gtg Val	ttg Leu 335	cct Pro	cac His	att Ile	gca Ala	agc Ser 340	cac His	cac His	1243
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tct Ser	tcg Ser	ccg Pro	gcg Ala	gga Gly 395	aac Asn	tcc Ser	ccg Pro	gcc Ala	ccg Pro 400	ctg Leu	tag	agggaccttc				1433
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	Met	Leu	Gln	Ile	His	Leu	Pro	Gly	Arg	His	Thr	Leu	Phe	Val	Arg	
				405					410					415		
gcc Ala	atg Met	atc Ile	gat Asp 420	tct Ser	ggt Gly	gct Ala	tct Ser	ggc Gly 425	aac Asn	ttc Phe	att Ile	gat Asp	cac His 430	gaa Glu	tat Tyr	1590
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gtg Val	gaa Glu 450	gca Ala	att Ile	gat Asp	ggg Gly	cgc Arg 455	ccc Pro	ata Ile	gca Ala	tcg Ser	ggc Gly 460	cca Pro	gtt Val	gtc Val	cac His	1686
gaa Glu 465	act Thr	cac His	gac Asp	ctg Leu	ata Ile 470	gtt Val	gac Asp	ctg Leu	gga Gly	gat Asp 475	cac His	cga Arg	gag Glu	gtg Val	ctg Leu 480	1734

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cgc tgg ctg agc aca cat gat ccc aat atc aca tgg agc act cga tct Arg Trp Leu Ser Thr His Asp Pro Asn Ile Thr Trp Ser Thr Arg Ser 500 505 510	1830
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cca ata cca cca tcg ctc cca cca cca gca cca caa ccg cca ctc tat Pro Ile Pro Pro Ser Leu Pro Pro Pro Ala Pro Gln Pro Pro Leu Tyr 530 535 540	1926
tat cca gta gat gga tac aga gtt tac caa cca gtg agg tat tac tat Tyr Pro Val Asp Gly Tyr Arg Val Tyr Gln Pro Val Arg Tyr Tyr Tyr 545 550 555 560	1974
gtc cag aat gtg tac act cca gta gat gag cac gtc tac cca gat cac Val Gln Asn Val Tyr Thr Pro Val Asp Glu His Val Tyr Pro Asp His 565 570 575	2022
cgc ctg gtt gac cct cac ata gaa atg ata cct gga gca cac agt att Arg Leu Val Asp Pro His Ile Glu Met Ile Pro Gly Ala His Ser Ile 580 585 590	2070
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Met Ile Thr Trp Asn Pro His Trp Tyr Arg Gln Pro Pro Val Pro Gln				
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tac ccg ccg cca cag ccg ccg cct cca cca cca cca ccg ccg ccg cct				2550
Tyr Pro Pro Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro				
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cca tct tac agt acc ctg taa atacctgtca tgtccttcag gatctctgcc				2601
Pro Ser Tyr Ser Thr Leu				
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<210> 2
<211> 401
<212> PRT
<213> Homo sapiens

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<400> 2

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Met Arg Asn Lys Arg Val Leu Lys Thr Lys Lys Arg Arg Ser Gly Arg
1          5          10         15

```

```

Gly Gly Gln Asp Pro Gly Leu His Pro His Arg Ser Glu Ala Thr Ala
          20         25         30

```

```

Gly Arg Ser Pro Pro Thr Pro Thr Val Thr Leu Gly Pro Asp Cys Pro
          35         40         45

```

```

Pro Pro Pro Pro Pro Pro Pro Pro Asn Asn Asn Asn Asn Asn Asn Ser
          50         55         60

```

```

Lys His Thr Gly His Lys Ser Ala Cys Val Pro Asn Met Thr Glu Arg
65          70          75         80

```


305 310 315 320

Ala Ala Ala Arg Lys Pro Arg Ser Pro Pro Arg Ala Leu Val Leu Pro
325 330 335

His Ile Ala Ser His His Gln Val Asp Pro Thr Glu Pro Val Gly Gly
340 345 350

Ala Arg Met Arg Leu Thr Gln Glu Glu Lys Glu Arg Arg Arg Lys Leu
355 360 365

Asn Leu Cys Leu Tyr Cys Gly Thr Gly Gly His Tyr Ala Asp Asn Cys
370 375 380

Pro Ala Lys Ala Ser Lys Ser Ser Pro Ala Gly Asn Ser Pro Ala Pro
385 390 395 400

Leu

<210> 3
<211> 357
<212> PRT
<213> Homo sapiens

<400> 3

Met Leu Gln Ile His Leu Pro Gly Arg His Thr Leu Phe Val Arg Ala
1 5 10 15

Met Ile Asp Ser Gly Ala Ser Gly Asn Phe Ile Asp His Glu Tyr Val
20 25 30

Ala Gln Asn Gly Ile Pro Leu Arg Ile Lys Asp Trp Pro Ile Leu Val
35 40 45

Glu Ala Ile Asp Gly Arg Pro Ile Ala Ser Gly Pro Val Val His Glu
50 55 60

Thr His Asp Leu Ile Val Asp Leu Gly Asp His Arg Glu Val Leu Ser
65 70 75 80

Phe Asp Val Thr Gln Ser Pro Phe Phe Pro Val Val Leu Gly Val Arg
85 90 95

Trp	Leu	Ser	Thr	His	Asp	Pro	Asn	Ile	Thr	Trp	Ser	Thr	Arg	Ser	Ile	100	105	110
Val	Phe	Asp	Ser	Glu	Tyr	Cys	Arg	Tyr	His	Cys	Arg	Met	Tyr	Ser	Pro	115	120	125
Ile	Pro	Pro	Ser	Leu	Pro	Pro	Pro	Ala	Pro	Gln	Pro	Pro	Leu	Tyr	Tyr	130	135	140
Pro	Val	Asp	Gly	Tyr	Arg	Val	Tyr	Gln	Pro	Val	Arg	Tyr	Tyr	Tyr	Val	145	150	155
Gln	Asn	Val	Tyr	Thr	Pro	Val	Asp	Glu	His	Val	Tyr	Pro	Asp	His	Arg	165	170	175
Leu	Val	Asp	Pro	His	Ile	Glu	Met	Ile	Pro	Gly	Ala	His	Ser	Ile	Pro	180	185	190
Ser	Gly	His	Val	Tyr	Ser	Leu	Ser	Glu	Pro	Glu	Met	Ala	Ala	Leu	Arg	195	200	205
Asp	Phe	Val	Ala	Arg	Asn	Val	Lys	Asp	Gly	Leu	Ile	Thr	Pro	Thr	Ile	210	215	220
Ala	Pro	Asn	Gly	Ala	Gln	Val	Leu	Gln	Val	Lys	Arg	Gly	Trp	Lys	Leu	225	230	235
Gln	Val	Ser	Tyr	Asp	Cys	Arg	Ala	Pro	Asn	Asn	Phe	Thr	Ile	Gln	Asn	245	250	255
Gln	Tyr	Pro	Arg	Leu	Ser	Ile	Pro	Asn	Leu	Glu	Asp	Gln	Ala	His	Leu	260	265	270
Ala	Thr	Tyr	Thr	Glu	Phe	Val	Pro	Gln	Ile	Pro	Gly	Tyr	Gln	Thr	Tyr	275	280	285
Pro	Thr	Tyr	Ala	Ala	Tyr	Pro	Thr	Tyr	Pro	Val	Gly	Phe	Ala	Trp	Tyr	290	295	300
Pro	Val	Gly	Arg	Asp	Gly	Gln	Gly	Arg	Ser	Leu	Tyr	Val	Pro	Val	Met	305	310	315
Ile	Thr	Trp	Asn	Pro	His	Trp	Tyr	Arg	Gln	Pro	Pro	Val	Pro	Gln	Tyr	325	330	335

Pro Pro Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro
 340 345 350

Ser Tyr Ser Thr Leu
 355

<210> 4
 <211> 31
 <212> DNA
 <213> Synthetic Sequence

<220>
 <223> Description of the Synthetic Sequence: Primer

<400> 4
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<210> 5
 <211> 30
 <212> DNA
 <213> Synthetic Sequence

<220>
 <223> Description of the Synthetic Sequence: Primer

<400> 5
 agcttcacgt ggctgcagat gccatggtgg 30

<210> 6
 <211> 30
 <212> DNA
 <213> Synthetic Sequence

<220>
 <223> Description of the Synthetic Sequence: Primer

<400> 6
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<210> 7
 <211> 29
 <212> DNA
 <213> Synthetic Sequence

<220>
 <223> Description of the Synthetic Sequence: Primer

<400> 7
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<210> 8
<211> 29
<212> DNA
<213> Synthetic Sequence

<220>
<223> Description of the Synthetic Sequence: Primer

<400> 8
ctagcccacc atggcatctg cacacgtga 29

<210> 9
<211> 28
<212> DNA
<213> Synthetic Sequence

<220>
<223> Description of the Synthetic Sequence: Primer

<400> 9
agcttcacgt gtgcagatgc catggtgg 28

<210> 10
<211> 23
<212> DNA
<213> Synthetic Sequence

<220>
<223> Description of the Synthetic Sequence: Primer

<400> 10
gggcggtagg cgtgtacggt ggg 23

<210> 11
<211> 26
<212> DNA
<213> Synthetic Sequence

<220>
<223> Description of the Synthetic Sequence: Primer

<400> 11
gcaactagaa ggcacagtcg aggctg 26

<210> 12
<211> 27
<212> DNA
<213> Synthetic Sequence

<220>
 <223> Description of the Synthetic Sequence: Primer
 <400> 12
 gtttgacag tgaggtatatt gtcttag 27

<210> 13
 <211> 27
 <212> DNA
 <213> Synthetic Sequence

<220>
 <223> Description of the Synthetic Sequence: Primer
 <400> 13
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<210> 14
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 <400> 14
 tgacgggggc acccactg tgcccatcta 30

<210> 15
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<220>
 <223> Description of the Synthetic Sequence: Primer
 <400> 15
 ctagaagcat tgcggtggac gatggaggg 29

<210> 16
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 <400> 16
 aaggtgaagg tcggagtcaa cg 22

<210> 17
<211> 24
<212> DNA
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<220>

<223> Description of the Synthetic Sequence: Primer

<400> 17

ggcagagatg atgacccttt tggc

24

<210> 18

<211> 26

<212> DNA

<213> Synthetic Sequence

<220>

<223> Description of the Synthetic Sequence: Primer

<400> 18

tattttgctc cctttctaac ttcttt

26

<210> 19

<211> 30

<212> DNA

<213> Synthetic Sequence

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<223> Description of the Synthetic Sequence: Primer

<400> 19

tttcactttt catcagcatc atctttcaca

30

<210> 20

<211> 27

<212> DNA

<213> Synthetic Sequence

<220>

<223> Description of the Synthetic Sequence: Primer

<400> 20

cgtttagactc ctcttcatgt caggcaa

27

<210> 21

<211> 22

<212> DNA

<213> Synthetic Sequence

<220>
 <223> Description of the Synthetic Sequence: Primer

 <400> 21
 ggtgacacta tagaaggtac gc 22

 <210> 22
 <211> 28
 <212> DNA
 <213> Synthetic Sequence

 <220>
 <223> Description of the Synthetic Sequence: Primer

 <400> 22
 caggcctgag atgtttcatg tcacaagg 28

 <210> 23
 <211> 29
 <212> DNA
 <213> Synthetic Sequence

 <220>
 <223> Description of the Synthetic Sequence: Primer

 <400> 23
 gcatttcctg cgtttgtatc agcttctct 29

 <210> 24
 <211> 30
 <212> DNA
 <213> Synthetic Sequence

 <220>
 <223> Description of the Synthetic Sequence: Primer

 <400> 24
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 <210> 25
 <211> 30
 <212> DNA
 <213> Synthetic Sequence

 <220>
 <223> Description of the Synthetic Sequence: Primer

 <400> 25
 catatagtga tottccttgt cagtcctcgtc 30

<210> 26
<211> 26
<212> DNA
<213> Synthetic Sequence

<220>
<223> Description of the Synthetic Sequence: Primer

<400> 26
gcgcccata attgcttcca caagta 26

<210> 27
<211> 21
<212> DNA
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<220>
<223> Description of the Synthetic Sequence: Primer

<400> 27
gcagagctcg tttagtgaac c 21

<210> 28
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<212> DNA
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<220>
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<400> 28
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<210> 29
<211> 29
<212> DNA
<213> Synthetic Sequence

<220>
<223> Description of the Synthetic Sequence: Primer

<400> 29
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<210> 30
<211> 26

<212> DNA
<213> Synthetic Sequence

<220>

<223> Description of the Synthetic Sequence: Primer

<400> 30

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26

<210> 31

<211> 37

<212> DNA

<213> Synthetic Sequence

<220>

<223> Description of the Synthetic Sequence: Primer

<400> 31

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37

<210> 32

<211> 27

<212> DNA

<213> Synthetic Sequence

<220>

<223> Description of the Synthetic Sequence: Primer

<400> 32

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27

<210> 33

<211> 22

<212> DNA

<213> Synthetic Sequence

<220>

<223> Description of the Synthetic Sequence: Primer

<400> 33

gagctcgtcc cttcttcggt cg

22

<210> 34

<211> 40

<212> DNA

<213> Synthetic Sequence

<220>

<223> Description of the Synthetic Sequence: Primer

<400> 34
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<210> 35
<211> 47
<212> DNA
<213> Synthetic Sequence

<220>
<223> Description of the Synthetic Sequence: Primer

<400> 35
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<210> 36
<211> 40
<212> DNA
<213> Synthetic Sequence

<220>
<223> Description of the Synthetic Sequence: Primer

<400> 36
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<210> 37
<211> 28
<212> DNA
<213> Synthetic Sequence

<220>
<223> Description of the Synthetic Sequence: Primer

<400> 37
cagggtgacg gttgggggtg gaggagac 28

<210> 38
<211> 29
<212> DNA
<213> Synthetic Sequence

<220>
<223> Description of the Synthetic Sequence: Primer

<400> 38
gcttcacttc tgtgggggatg gaggcctgg 29

<210> 39
<211> 22
<212> DNA
<213> Synthetic Sequence

<220>
<223> Description of the Synthetic Sequence: Primer

<400> 39
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<210> 40
<211> 29
<212> DNA
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<220>
<223> Description of the Synthetic Sequence: Primer

<400> 40
cgcagaggag tcctcgctg gtgagtatg 29

<210> 41
<211> 29
<212> DNA
<213> Synthetic Sequence

<220>
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<400> 41
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<223> Description of the Synthetic Sequence: Primer

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Ile His Leu Pro Gly Arg His Thr Leu

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His Leu Pro Gly Arg His Thr Leu Phe

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Trp Leu Ser Ala His Asp Pro Asn Ile
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Ile Val Phe Asp Ser Glu Tyr Cys Arg
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Pro Pro Pro Ala Pro Gln Pro Pro Leu
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Glu Met Ile Pro Gly Ala His Ser Ile
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His Ser Ile Pro Ser Gly His Val Tyr
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Ile Pro Ser Gly His Val Tyr Ser Leu
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 Glu Met Ala Ala Leu Arg Asp Phe Val
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Thr Ile Ala Pro Asn Gly Ala Gln Val
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Ile Ala Pro Asn Gly Ala Gln Val Leu
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Val Leu Gln Val Lys Arg Gly Trp Lys
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Leu Gln Val Lys Arg Gly Trp Lys Leu
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Tyr Pro Arg Leu Ser Ile Pro Asn Leu
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<213> Homo sapiens

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Glu Asp Gln Ala His Leu Ala Thr Tyr
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His Leu Ala Thr Tyr Thr Glu Phe Val
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Gly Arg Asp Gly Gln Gly Arg Ser Leu
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Arg Asp Gly Gln Gly Arg Ser Leu Tyr
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Asp Gly Gln Gly Arg Ser Leu Tyr Val
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Lys Leu Thr Glu Glu Asn Thr Thr Leu
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Leu Thr Glu Glu Asn Thr Thr Leu Arg
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<400> 92
Ile Glu Leu Arg Gly Ala Ala Ala Ala
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Phe Met Ala Gln Cys Gln Ile Phe Met
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Ser Met Met Thr Gly Arg Ala Ala Arg
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Ala Ala Arg Trp Ala Ser Ala Lys Leu
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Gln Gly Met Gly Ser Val Ile Asp Tyr
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Asn Glu Pro Ala Leu Ile Asp Gln Tyr
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1 5

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Arg Met Arg Leu Thr Gln Glu Glu Lys
1 5

<210> 102
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<400> 102
Pro Thr Glu Pro Val Gly Gly Ala Arg
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